

Small energy storage device chemistry



Overview

In this Review, we discuss the roles of anion chemistry across various energy storage devices and clarify the correlations between anion properties and their performance indexes.

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[Electrochemical energy storage systems: A review of types](#)

Electrochemical energy storage systems (ECESS) are at the forefront of tackling global energy concerns by allowing for efficient energy usage, the integration of renewable resources, and

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Nanomaterials offer promising applications in retinal disease due to their small size, high biocompatibility, and functional versatility. They enhance imaging precision, enable biomarker



[Nanomaterials for Energy Storage Systems-A Review](#)

We explore the diverse applications of nanomaterials in batteries, encompassing electrode materials (e.g., carbon nanotubes, metal oxides), electrolytes, and

[Energy Storage: From Fundamental Principles to](#)

This study reviews chemical and thermal energy storage technologies, focusing on how they integrate with renewable energy sources,



[Flexible electrochemical energy storage devices and](#)



This review is intended to provide strategies for the design of components in flexible energy storage devices (electrode materials, gel electrolytes, and separators)

Overview

Small continues to be among the top multidisciplinary journals covering a broad spectrum of topics at the nano- and microscale at the interface of materials science, chemistry, physics, engineering,



Small: Early View

A new nanoparticle-based biomarker panel is described that can differentiate pancreatic cancer from benign pancreatic disease with a high level of performance. This was enabled by microelectrode

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Small Science is a multidisciplinary journal publishing the cutting-edge fundamental and applied research on the sub-macro scale in physics, chemistry, materials science, medical and life sciences,

[\(PDF\) A Comprehensive Review of Electrochemical Energy Storage](#)

The review begins by elucidating the fundamental principles governing electrochemical energy storage, followed by a systematic analysis of the various energy storage technologies.



[Anion chemistry in energy storage devices](#)

In this Review, we discuss the roles of anion chemistry across various energy storage devices and clarify the correlations between anion properties and their performance indexes.

[Nanowires for Electrochemical Energy Storage , Chemical Reviews](#)

The problems and limitations in electrochemical energy storage and the advantages in utilizing nanowires to address the issues and improve the device performance are pointed out.



[Designing Structural Electrochemical Energy Storage Systems: A](#)

As well as the intrinsic electrochemical performance of different chemistries, it is important to consider device energy densities in existing embodiments and projected to future embodiments that might be

[Small , Nanoscience & Nanotechnology Journal , Wiley Online Library](#)

Small is a nanoscience & nanotechnology journal

providing the very best forum for fundamental and interdisciplinary applied research at the nano- and microscale, covering chemistry, energy, physical



[Small Methods , Nano & Micro Technology Journal , Wiley Online Library](#)

Small Methods is a nanoscience & nanotechnology journal focusing on significant advances in any and all methods applicable to nano- and microscale research. The journal covers all areas of chemistry,

[Graphene Materials for Miniaturized Energy Harvest](#)

In this review, the recent advances of graphene-based materials for miniature energy harvesting and storage devices are summarized, including



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Oxygen Evolution Reaction Although dynamic structural reconstruction of sulfides under oxygen evolution reaction (OER) conditions is widely considered the origin of high activity, it

Contact

Contact the Team Editorial queries (Submission and Peer Review) E-mail: small@wiley Production queries (after Acceptance) E-mail: SMLLprod@wiley Phone: +49 6201 606-581 Mail: Postfach



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